

## Supporting Information

### Fast preparation of adhesive, anti-freezing hydrogels with strain- and magnetic-responsive conductivities

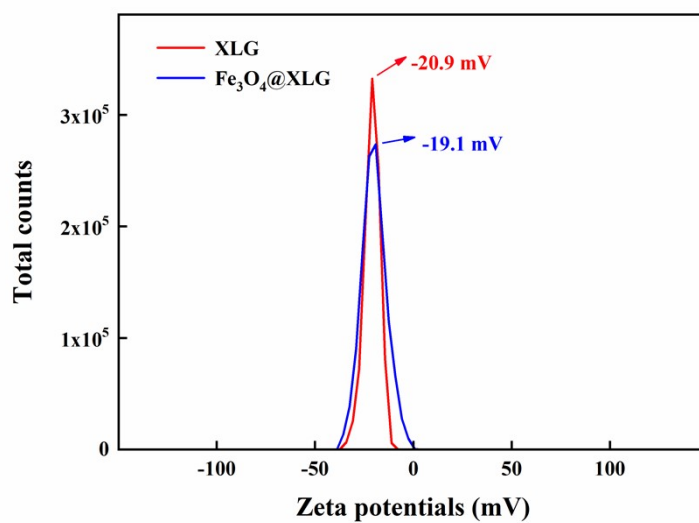
Xinyu He<sup>a,b</sup>, Xinyi Huang<sup>a,b</sup>, Shuai He<sup>a,b</sup>, Wei Zhang<sup>a,b</sup>, Xinhua Li<sup>a,b</sup>, Yong You<sup>a,b\*</sup> and Fang Zuo<sup>a,b\*</sup>

a. College of Chemistry & Environment, Southwest Minzu University, Chengdu 610041, China.

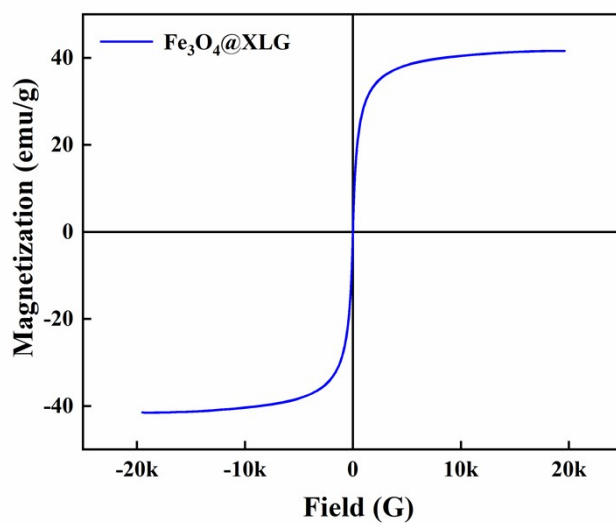
b. Key Laboratory of Pollution Control Chemistry and Environmental Functional Materials for Qinghai-Tibet Plateau of the National Ethnic Affairs Commission, Southwest Minzu University, Chengdu 610041, China.

#### **This File Includes:**

Supplementary Figures S1 to S2



**Figure S1** The zeta potentials of XLG and Fe<sub>3</sub>O<sub>4</sub>@XLG NPs.



**Figure S2** The VSM curve of Fe<sub>3</sub>O<sub>4</sub>@XLG NPs.